

Name(s) of Risk Team Members: P. Bergh, S. Bellavia, H. Schnakenberg and F. Zafonte			Point Value → Parameter ↓		1		2		3		4		5			
Job Title: Radiation/contamination work, BLIP spur Job Number or Job Identifier: JRA 7-05			Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift			
Job Description: Remove and replace BLIP water tank window			Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability			
Training and Procedures List (optional):			Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple			
Approved by: <i>E. Lessard</i> Date: 1/17/05 Rev. #: 0																
Stressors (if applicable, please list all):			Reason for Revision (if applicable): Annual Review						Comments: C-AD RCD and C-AD personnel work with BLIP (Medical Dept.) personnel while performing this task.							
					Before Additional Controls					After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Drive to and from LINAC	Traffic accident	Licensed drivers, traffic rules, traffic-rule enforcement, seat belts, vehicle inspection and maintenance	N	3	2	3	2	36								
Remove/replace vacuum tube and water tank window	Radiation, unnecessary external dose	Temporary shielding, extension tools to maximize distance, viewing mirror to reduce exposure to direct shine, digital photographs to reduce time in area, radiological procedures, ALARA review, Radiological Work Permit, radiological surveys, supplemental dosimetry including SRDs and extremity TLDs, work planning, individual and collective dose tracking, constant Health Physics coverage, proper lighting and housekeeping	N	3	2	1	2	12								

Remove/replace vacuum tube and water tank window	Contamination, unnecessary internal dose	Engineering control (proper ventilation control), use of approved polishing oils to reduce resuspension factor, work planning, Radiological Work Permit, pre-job briefing, Personal Protective Equipment, bagging contaminated components, contamination surveys, air sampling, personnel contamination monitoring, contamination control procedures, constant Health Physics coverage, good house keeping practices, decontamination of area as necessary	N	3	2	1	2	12								
Remove/replace vacuum tube and water tank window	Tight working area, obstructions, trips and falls	Perform walkthrough of area to identify/remove hazards; proper lighting, good house keeping	N	3	2	2	3	36								
Remove water tank window flange bolts, polish flange	Moving machinery (power tools), being struck by object	Experienced personnel with appropriate skill level, safety glasses, gloves, work planning	N	3	1	2	3	18								
Shield activated components with lead blankets	Lifting 40-pound blankets, back strain	Training, proper lifting technique (use of squat technique)	N	2	1	3	3	18								
Fork Lift shield pig to transport truck	Forklift accident, drop load, being struck by object	Training, qualified personnel, fork truck inspections and maintenance, required items strapped to mast, road surface maintenance, and suspect parts program	N	3	1	3	2	18								
Transport radioactive material to building 801	Vehicle accident, spills, loss of radioactive material control	Hazardous Material Transportation Manual, BNL on-Site Transfer/Safety Assessment Form, licensed drivers, traffic rules, vehicle inspection and maintenance	N	3	1	3	2	18								

Further Description of Controls Added to Reduce Risk:

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable